

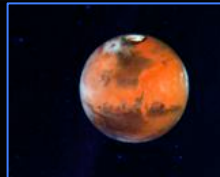


# **NASA's Space Launch System:** *Positioning Assets for Tele-Robotic Operations*

**Todd A. May, Program Manager**  
**Space Launch System (SLS)**

**NASA Marshall Space Flight Center**  
*March 5, 2013*

**Space Launch System**



# One Ship, Many Destinations



***Ships of exploration  
shouldn't limit  
destinations...***

***...they should open  
opportunities***

# The Next Great Ship

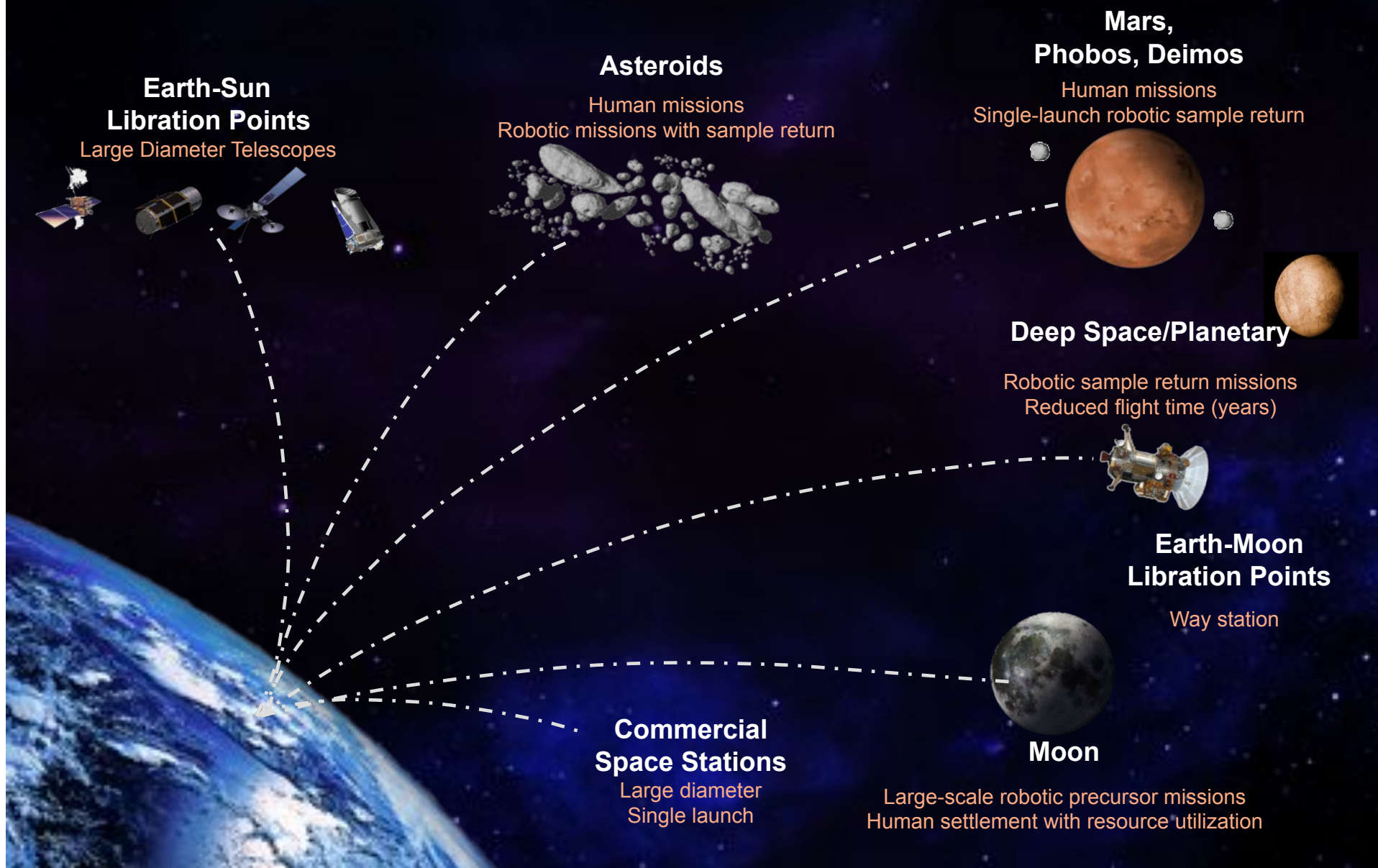




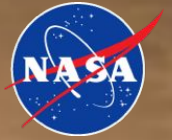
# “The New Ocean”



# Islands in Our Ocean

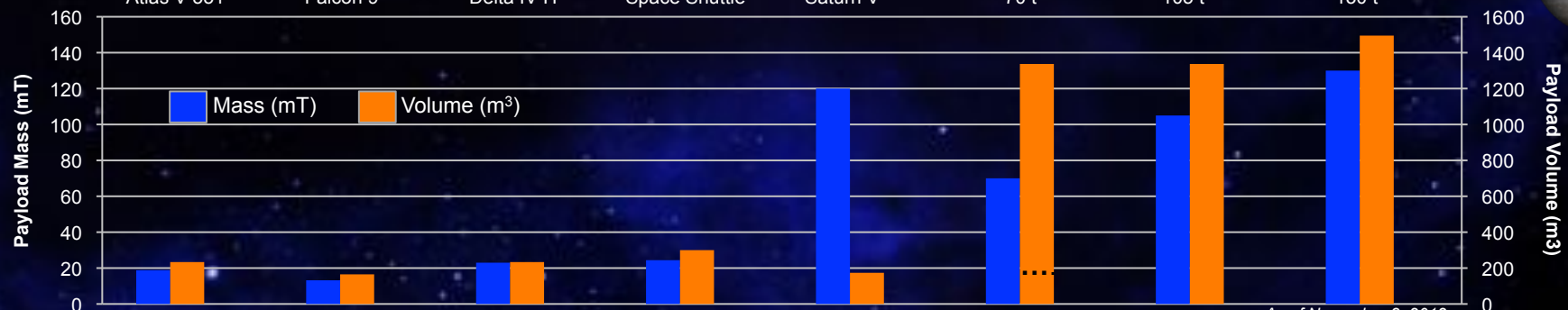
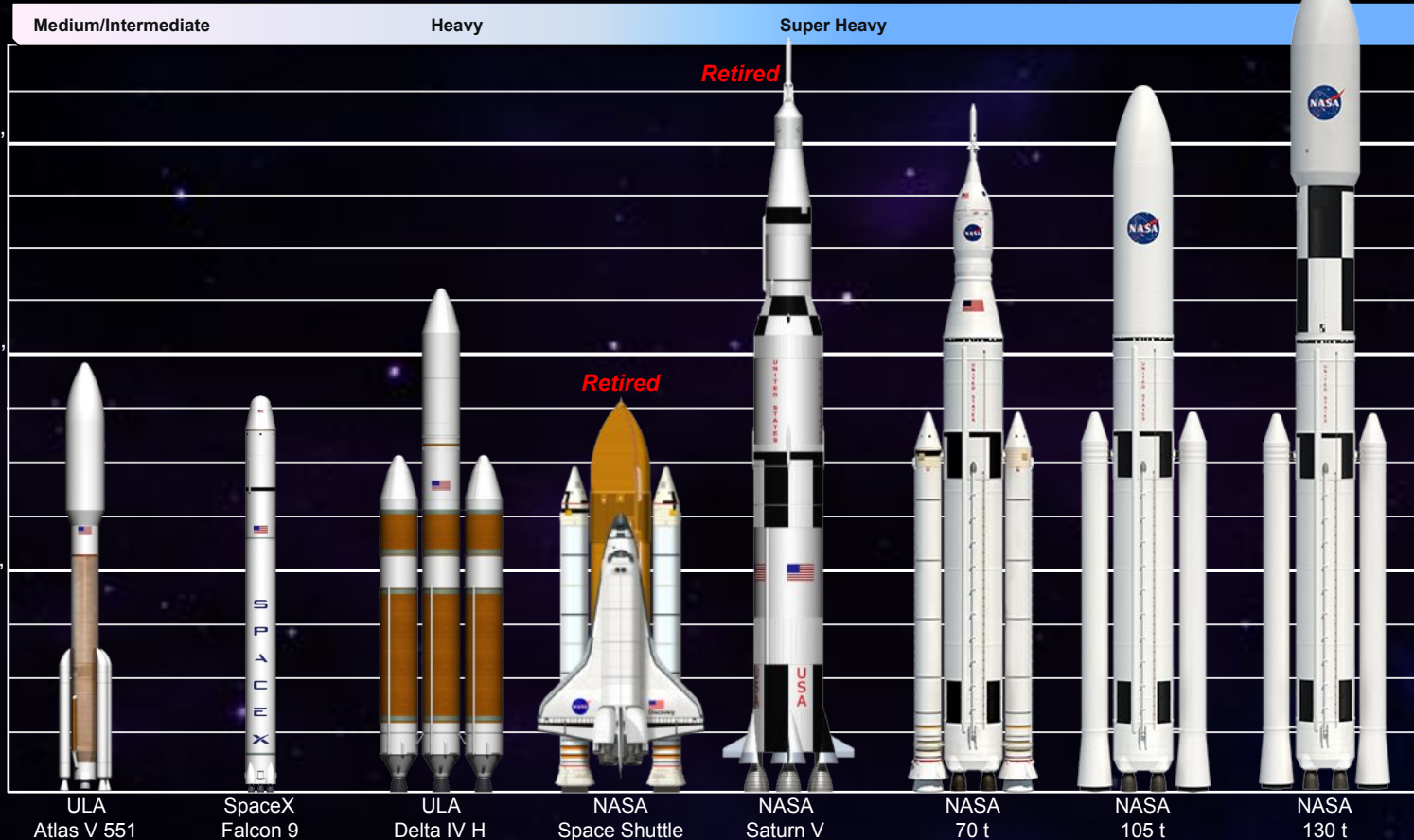
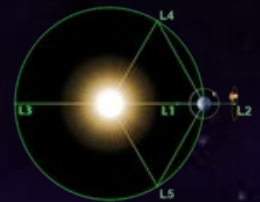
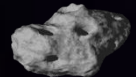
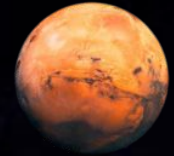


# Enabling Real-Time Tele-Operations





# Most Capable U.S. Launch Vehicle



As of November 8, 2012

# SLS: Taking Shape Today



Systems Engineering and Integration  
SLS model undergoes wind tunnel  
testing at Langley Research Center  
Nov 2012



J-2X power pack assembly hot fire  
test at Stennis Space Center  
Nov 2012



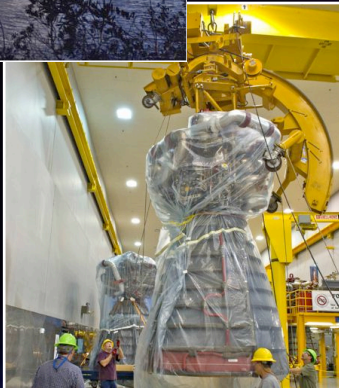
Multi-Purpose Crew Vehicle Stage  
Adapter Pathfinder Hardware  
at Marshall Space Flight Center  
June 2012



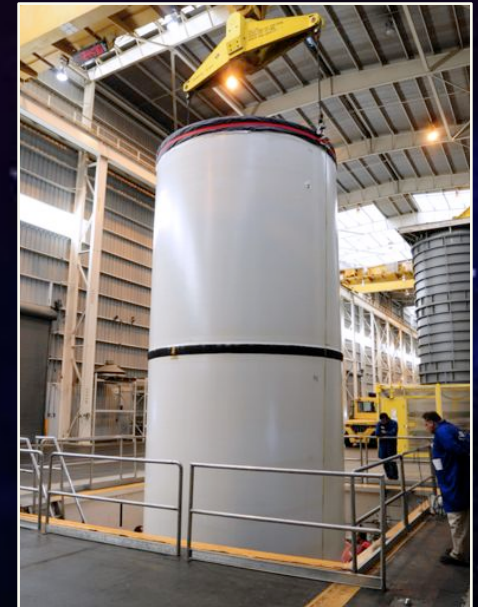
Kennedy Space Center  
Launch Complex 39B  
(artist's concept)



RS-25 Engines  
at Stennis  
Space Center  
Oct 2012,  
shown with  
future RS-25  
Test Stand A1



F-1 engine gas generator hot fire test at Marshall Space Flight  
Center, Jan 2013 – technology development for an optional  
Advanced Booster concept



Qualification Motor 1 casting at ATK  
Oct 2012

***SLS Maiden Voyage 2017***



**For More Information**

**[www.nasa.gov/sls](http://www.nasa.gov/sls)**

**[www.twitter.com/nasa\\_sls](https://www.twitter.com/nasa_sls)**

**[www.facebook.com/nasasls](https://www.facebook.com/nasasls)**

